

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-17 (Cancelled)

Claim 18 (Previously Amended) A system for generating hydrogen gas comprising:

- an electrochemical cell stack;

- a phase separator fluidly coupled to said electrochemical stack for receiving a water gas mixture;

- a metallic vent conduit fluidly connected and extending vertically from the top of said phase separator; and,

- a combustible gas sensor coupled and electrically grounded to said vent conduit, wherein said vent conduit further comprises an exhaust outlet.

Claim 19 (Original) The system for generating hydrogen gas of claim 18 wherein said combustible gas sensor is positioned adjacent to said exhaust outlet.